

CAS/STN FILE 'REGISTRY' ENTERED AT 09:33:58 ON 04 AUG 2003

L1 472 S "C H N O T A"/ELF
L2 714 S "C H O T A"/ELF
L3 62 S "C H O S T A"/ELF

FILE 'HCAPLUS' ENTERED AT 09:35:38 ON 04 AUG 2003

L4 51 S (L1 OR L2 OR L3)(L)PRECURSOR

FILE 'HCAPLUS' ENTERED AT 09:35:49 ON 04 AUG 2003

L5 94 S (L1 OR L2 OR L3) AND PRECURSOR
L6 100967 S CAPACITORS/CT OR "ELECTRIC CAPACITORS"/CT OR "CAPACITOR ELECTRODES"/CT OR "CERAMIC CAPACITORS"/CT OR "ELECTROLYTIC CAPACITORS"/CT OR ("FERROELECTRIC CAPACITORS"/CT OR "MOS CAPACITORS"/CT OR VARACTORS/CT) OR CAPACITOR OR CAPACITIV##### OR CAPACITANCE
L7 18 S L5 AND L6

FILE 'REGISTRY' ENTERED AT 09:41:35 ON 04 AUG 2003

L8 1 S 172901-22-3

FILE 'HCAPLUS' ENTERED AT 09:42:48 ON 04 AUG 2003

S 172901-22-3/REG#

FILE 'REGISTRY' ENTERED AT 09:42:51 ON 04 AUG 2003

L9 1 S 172901-22-3/RN

FILE 'HCAPLUS' ENTERED AT 09:42:51 ON 04 AUG 2003

L10 15 S L9
L11 12 S L10 NOT L7
L12 SEL L11 1- RN: 204 TERMS

FILE 'REGISTRY' ENTERED AT 09:44:17 ON 04 AUG 2003

L13 204 S L12
L14 27 S L13 AND TA/ELS

FILE 'HCAPLUS' ENTERED AT 09:44:41 ON 04 AUG 2003

L15 12 S L11 AND L14
L16 2018 S L14 AND L6
L17 28 S (L1 OR L2 OR L3) AND L6
L18 30 S L7 OR L10
L19 900 S L16 AND L14(L)(LAYER OR FILM OR INTERPOS### #)
L20 32 S L19 AND COMPLEX####

FILE 'REGISTRY' ENTERED AT 09:49:29 ON 04 AUG 2003

L21 139 S OZONE

FILE 'HCAPLUS' ENTERED AT 09:50:22 ON 04 AUG 2003

L22 143 S L16 AND (L21 OR OZONE OR O3 OR OZON#####)

FILE 'REGISTRY' ENTERED AT 09:50:53 ON 04 AUG 2003

L23 329 S "O T A"/ELF OR O.TA/MF

FILE 'HCAPLUS' ENTERED AT 09:51:30 ON 04 AUG 2003

L24 1960 S L16 AND L23

FILE 'HCAPLUS' ENTERED AT 09:52:53 ON 04 AUG 2003

L25 739 S L16 AND (ELECTRODES OR SECOND ELECTRODE OR BOTTOM(1W)ELECTRODE OR TOP(1W)ELECTRODE OR UPPER(1W)ELECTRODE OR LOWER(1W)ELECTRODE)
L26 519 S L16 AND (BARRIER OR BLOCK##### OR INTERPOS##### OR BETWEEN)
L27 779 S L16 AND (NITRIDE OR NOBLE METAL OR POLYSI?
OR POLY(W)(SI OR SILICON) OR POLYCRYST#####(2A)(SI OR SILICON))
L28 253 S L16 AND (POLYSI? OR POLY(W)(SI OR SILICON) OR POLYCRYST#####(2A)(SI OR SILICON))
L29 16 S L16 AND (NOBLE METAL)
L30 84 S L16 AND (NITRIDE(3A)ELECTRODE)

FILE 'REGISTRY' ENTERED AT 09:56:57 ON 04 AUG 2003

L31 543 S RU/MF OR IR/MF OR PT/MF
L32 3203 S (N T I OR N T A OR N W)/ELF
L33 477 S (N.TI OR N.TA OR N.W)/MF

FILE 'HCAPLUS' ENTERED AT 09:57:51 ON 04 AUG 2003

L34 147606 S L31
 L35 28963 S L32
 L36 878 S L32(L)ELECTRODE
 L37 17350 S L31(L)ELECTRODE
 L38 744 S L32(L)CONDUCT#####
 L39 2235 S L31(L)CONDUCT#####
 L40 182 S L16 AND (L36 OR L37 OR L38 OR L39)

FILE 'HCAPLUS' ENTERED AT 09:59:59 ON 04 AUG 2003

L41 89 S L16 AND (POLYSI? OR POLY OR POLYCRYST#####)
 (3A)(ELECTRODE OR CONDUCT#####)
 L42 531 S (L1 OR L2 OR L3)
 L43 11960 S L14
 L44 28 S L42 AND L6
 L45 2018 S L43 AND L6
 L46 10 S L44 NOT L18
 L47 215 S L16 AND L14(L)(ELECTRODE OR CONDUCT#####)
 L48 838 S L16 AND L14(L)(BARRIER OR BLOCK##### OR INTERPOS##### OR BETWEEN OR DIFFUS##### OR
 INSULAT##### OR DIELEC#####)
 L49 1339 S L19 OR (L47 OR L48)
 L50 113 S L49 AND L22
 L51 1295 S L49 AND L24
 L52 500 S L49 AND L25
 L53 384 S L49 AND L26
 L54 483 S L49 AND L27
 L55 140 S L49 AND L28
 L56 13 S L49 AND L29
 L57 67 S L49 AND L30
 L58 57 S L49 AND L41
 L59 480 S L51 AND L52
 L60 191 S L51 AND L52 AND L53
 L61 129 S L51 AND L52 AND L53 AND L54
 L62 37 S L51 AND L52 AND L53 AND L54 AND L55
 L63 13 S L57 AND L58
 L64 59 S L57 AND L59
 L65 21 S L55 AND L57
 L66 52 S L55 AND L58
 L67 22 S L60 AND L57
 L68 18 S L60 AND L58
 L69 11 S L64 AND L66
 L70 42 S L61 AND SEMICOND#####(2A)CAPACITOR
 L71 93035 S CVD/Q
 L72 18 S L50 AND PRECURS#####
 L74 11 S L50 AND (L57 OR L58)
 L75 6 S L50 AND L64
 L76 6 S L50 AND L70
 L77 22 S L40 AND L50
 L78 176 S L17 OR L20 OR L29 OR L44 OR L46 OR L56 OR (L62 OR L63) OR L65 OR (L67 OR L68 OR L69 OR L70) OR
 (L72 OR L74 OR L75 OR L76 OR L77)
 L79 158 S L78 NOT (L7 OR L10)
 L80 113 S L23(L)(INTERPOS##### OR LAYER OR FILM OR BARRIER OR DIFFUS##### OR BLOCK) AND L79
 L81 33 S L79 AND (L21 OR OZONE OR O3 OR OZON##### #)
 L82 10 S (L1 OR L2 OR L3) AND L79
 L83 42 S (L81 OR L82)
 L84 474 S (L21 OR OZONE OR O3 OR OZON#####) AND L23
 L85 133 S L84 AND CAPACITOR
 L86 15 S L85 AND PRECURSOR
 L87 1 S L86 NOT (L83 OR L7 OR L10)
 L88 SEL PLU=ON L87 1- RN: 13 TERMS
 L89 919446 S L88
 L90 1 S L89 AND L87
 L91 12 S TITANIUM OXIDE PRECURSOR
 L92 1 S L91 AND L6
 L93 SEL PLU=ON L92 1- RN: 2 TERMS
 L94 45636 S L93

FILE 'HCAPLUS' ENTERED AT 09:59:59 ON 04 AUG 2003

L95 1 S L94 AND L92
 L96 51 S (L1 OR L2 OR L3)(L)PRECURSOR
 L97 74 S L83 OR L90 OR L95 OR L7 OR L10 OR L87
 L98 22 S L96 AND L23
 L99 14 S L98 NOT L97
 L100 22 S (L1 OR L2 OR L3) AND (L21 OR OZONE OR O3 OR OZON#####)
 L101 5 S L100 NOT (L97 OR L98)
 L102 83 S L23(L)PRECURSOR
 L103 143 S L23 AND L6 AND (L21 OR OZONE OR O3 OR OZON#####)
 L104 58 S (L31 OR L32 OR L33) AND L103
 L105 0 S L102 AND L104
 L106 13 S L104 AND PRECURS#####
 L107 8 S L104 AND ?ETHOX?
 L108 16 S (L106 OR L107)
 L109 SEL PLU=ON L108 1- RN : 245 TERMS

FILE 'REGISTRY' ENTERED AT 10:42:51 ON 04 AUG 2003

L110 245 S L109
 L111 26 S L110 AND TA/ELS,MAC
 L112 9 S L110 AND (L31 OR L32 OR L33)
 L113 1 S L110 AND L21

FILE 'HCAPLUS' ENTERED AT 10:44:16 ON 04 AUG 2003

L114 16 S L108 AND (L111 OR L112 OR L113)
 L115 1 S US 2002140005/PN
 L116 SEL PLU=ON L115 1- IC : 3 TERMS
 L117 13939 S L116
 L118 20 S (L1 OR L2 OR L3) AND L117
 L119 70 S L101 OR L114 OR L99 OR L83
 L120 95 S L119 OR L7 OR L10
 L121 11 S L118 NOT L120

FILE 'REGISTRY' ENTERED AT 10:49:06 ON 04 AUG 2003

L122 37 S ETHOX
 L123 1047783 S ETHOXY
 L124 404 S (L122 OR L123) AND TA/ELS,MF
 L125 404 S (L122 OR L123) AND TA/ELS,MF,MAC

FILE 'HCAPLUS' ENTERED AT 10:50:22 ON 04 AUG 2003

L126 878 S L125
 L127 143 S L126 AND L6
 L128 28 S L127 AND (L21 OR OZONE OR O3 OR OZON#####)
 L129 106 S (L120 OR L121)
 L130 15 S L128 NOT L129

FILE 'REGISTRY' ENTERED AT 10:51:56 ON 04 AUG 2003

L131 148 S PENTAETHOX?
 L132 2181 S TETRAETHOX?
 L133 96 S (L131 OR L132) AND TA/ELS,MAC

FILE 'HCAPLUS' ENTERED AT 10:55:15 ON 04 AUG 2003

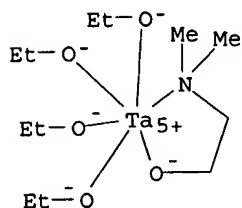
L134 784 S L133
 L135 138 S L134 AND L6
 L136 76 S L134 AND (L21 OR OZONE OR O3 OR OZON#####)
 L137 28 S L135 AND L136
 L138 0 S L137 NOT (L128 OR L129)

L8 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS on STN
 RN 172901-22-3 REGISTRY
 CN Tantalum, [2-(dimethylamino-.kappa.N)ethanolato-.kappa.O]tetraethoxy-,
 (OC-6-23)- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Tantalum, [2-(dimethylamino)ethanolato-N,O]tetraethoxy-, (OC-6-23)-
 MF C12 H30 N O5 Ta
 CI CCS
 SR CA
 LC STN Files: CA, CAPLUS, CHEMCATS, CSCHEM, USPAT2, USPATFULL

Ring System Data

Elemental Analysis EA	Elemental Sequence ES	Size of the Rings SZ	Ring System Formula RF	Ring Identifier RID	RID Occurrence Count
C2NOTa	NTaOC2	5	C2NOTa	16.277.1	1

*Example
of
chemical
structures*



15 REFERENCES IN FILE CA (1947 TO DATE)
 15 REFERENCES IN FILE CAPLUS (1947 TO DATE)